DATA CARTRIDGE

HBI-55

Before using the unit, please read this manual and the computer's manual, and retain them for future reference.

Sony HBI-55 data cartridge is used to store data of the software built in the Sony home computer HB-55Por HB-75P/B

The cartridge can store data up to 4K bytes (about 4000 characters).

PRECAUTIONS

Turn off the computer whenever you insert or remove the data cartridge.

Handle the cartridge with care.

- Care should be taken so that no solid object or liquid falls into the cartridge enclosure.
- · Do not attempt to disassemble the cartridge.
- Do not drop cartrige or bump it against other objects.

Do not place the cartridge near heat sources as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration or moisture.

INSERTION OF THE DATA CARTRIDGE



First make sure your MSX computer and a moniter TV are connected correctly. For instructions on the connection, please refer to the instruction manual of the computer.

- Insert the data cartridge into cartridge slot A with the illustration side toward you or into cartridge slot B with the illustration side up. When an MSX-BASIC program is to be saved or to be loaded on an HB-55P, insert the HBM-64 expansion memory cartridge into the other cartridge slot.
- @ Turn on the computer.
- Turn on the monitor TV and select the proper channel for the computer.
- Do not insert any cartridge other than HBM-16 or HBM-64 into the other cartridge slot when a data cartridge is used.



TO SAVE/LOAD DATA OF THE PERSONAL DATA BANK





Operation

Refer to the "How to Use the Personal Data Bank" supplied with the HB-55P or HB-75P/B.

TO SAVE/LOAD AN MSX BASIC PROGRAM





Operation

- Start the MSX-BASIC by selecting "BASIC+DATA CARTRIDGE".
- In the MSX-BASIC mode, execute SAVE "CAT:"

to save the program in the computer to the data cartridge. Execute

LOAD "CAT:"

to load the program in the data cartridge to the computer.

 One MSX-BASIC program can be stored in a data cartridge at a time.

MAKING A BACKUP COPY OF THE DATA CARTRIDGE

The data cartridge is powered by a lithium battery. The battery will be exhausted after about 5 years of use, after which the data cartridge cannot be used again. Before the battery is 'completely discharged, copy the data in the cartridge to another data cartridge.

TO COPY THE DATA OF THE PERSONAL DATA BANK





Operation

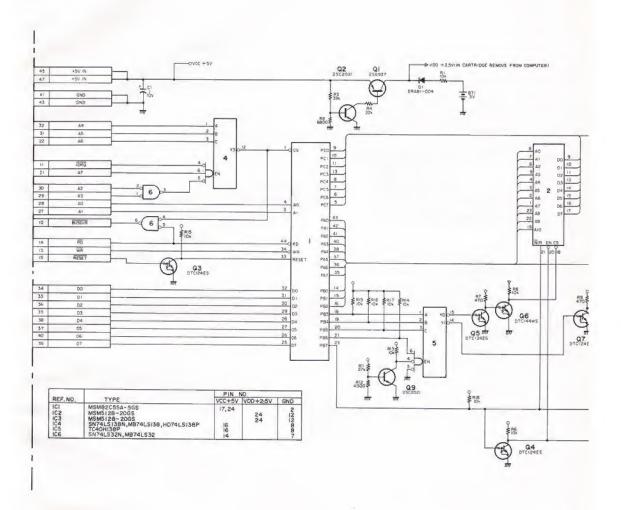
- Ocopy the data of the Personal Data Bank in the data cartridge to a cassette tape by using the Personal Data Bank COPY funcion.
- Oopy the data on the tape to a new data cartridge by using the Personal Data Bank COPY function.
- For details about the COPY function, refer to the "How to Use the Personal Data Bank" supplied with the HB-55Por HB-75P/B.

TO COPY THE MSX-BASIC PROGRAM

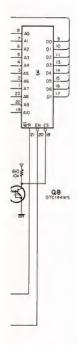


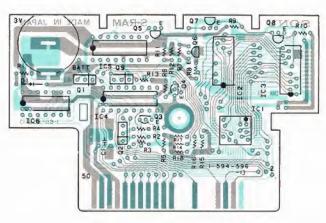
Operation

- Load the MSX-BASIC program in the data cartridge to the computer by executing LOAD "CAT:"
- Save the program onto the cassette tape by executing CSAVE "file name"
- Turn off the power of the computer, remove the data carridge and insert a new data cartridge. Then turn on the computer and start the MSX-BASIC.
- Load the program which was saved in the step @ from the cassette tape to the computer by executing CLOAD "file name"
- Save the program onto the data cartridge by executing SAVE "CAT:"



PRINTED CIRCUIT BOARD

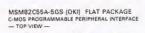


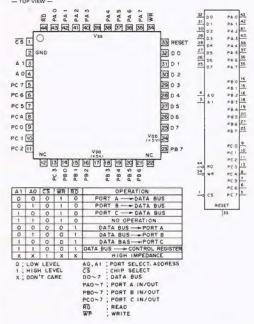


S-RAM COMPONENT SIDE 1-611-838-13 HBI-55(EK)

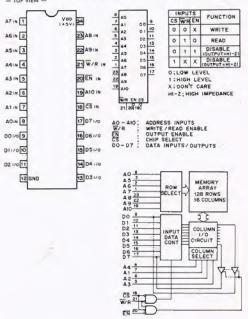
S-RAM

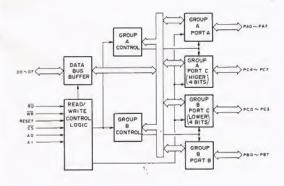
SEMICONDUCTOR PIN ASSIGNMENTS

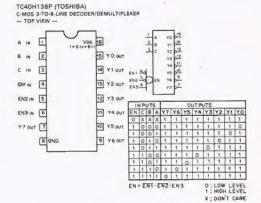


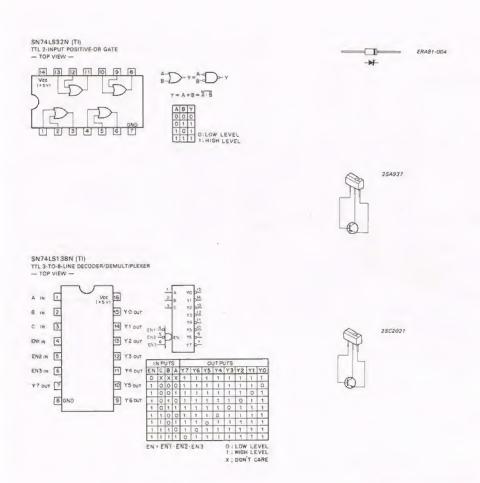


MSM5128-20GS (OKI) (ACCESS TIME = 200 nS) FLAT PACKAGE C-MOS 16384(2048×8)-BIT HIGH SPEED STATIC RAM — TOP VIEW —





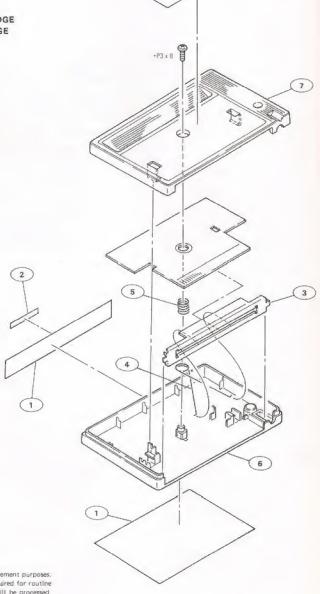




OTC 12465 (R1 = 22K, R2 = 22K) OTC 144WS (R1 = 47K, R2 = 22K)

EXPLODED VIEW

No.	Parts No.	Description
1	X-4604-426-1	LABEL ASSY
2	3-701-690-01	LABEL (MADE IN JAPAN)
3	4-604-401-02	PROTECTOR
4	4-604-402-01	SPRING, TORSION
5	4-604-403-01	SPRING, COMPRESSION
6	4-604-407-11	CASE (FRONT), CARTRIDGE
7	4-604-408-12	CASE (REAR), CARTRIDGE



NOTE:

- 1. Parts printed in Bold-Face type are normally stocked for replacement purposes.

 The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.
- Hem with no part number and/or no description are not stocked because they are seldom required for routine service.

ELECTRICAL PARTS LIST

Ref. No. Parts No. Description S-RAM BOARD R6 1-247-855-00 CARBON 10K BT1 1-528-138-11 BATTERY, LITHIUM R8 1-247-855-00 CARBON 10K C1 1-131-418-00 TANTALUM 1 20% 10V R11 1-247-855-00 CARBON 27K C1 8-719-981-01 ERAB1-004 R11 1-247-855-00 CARBON 4.3K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K <t< th=""><th>5% 5% 5% 5% 5% 5% 5% 5%</th><th>1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W</th></t<>	5% 5% 5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
BT1 1-528-138-11 BATTERY, LITHIUM R8 1-247-823-00 CARBON 470 R9 1-247-823-00 CARBON 10K R9 1-247-825-00 CARBON 10K R10 1-247-855-00 CARBON 10K R11 1-247-855-00 CARBON 10K R12 1-247-855-00 CARBON 10K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R10 1-247-855-00 CARBON 10K R10 1-247-855-00 CARBON 10K R11 1-247-855-00 CARBON 10K R12 1-247-855-00 CARBON 10K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R10 1-247-855-00 CARBON 10K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
BT1 1-528-138-11 BATTERY, LITHIUM R8 1-247-823-00 CARBON 470 CARBON 10K R9 1-247-823-00 CARBON 10K R9 1-247-855-00 CARBON 10K R10 1-247-855-00 CARBON 10K R10 1-247-855-00 CARBON 10K R11 1-247-855-00 CARBON 10K R12 1-247-855-00 CARBON 10K R12 1-247-855-00 CARBON 10K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00	5% 5% 5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
R9 1-247-823-00 CARBON 470 R10 1-247-855-00 CARBON 10K C1 1-131-418-00 TANTALUM 1 20% 10V R11 1-247-865-00 CARBON 27K R12 1-247-846-00 CARBON 10K R13 1-247-845-00 CARBON 10K R14 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON	5% 5% 5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
R9 1-247-823-00 CARBON 470 R10 1-247-855-00 CARBON 10K C1 1-131-418-00 TANTALUM 1 20% 10V R11 1-247-865-00 CARBON 27K R12 1-247-846-00 CARBON 4.3K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBO	5% 5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
C1 1-131-418-00 TANTALUM 1 20% 10V R11 1-247-865-00 CARBON 27K R12 1-247-846-00 CARBON 4.3K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBO	5% 5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W 1/6W
R12 1-247-846-00 CARBON 4.3K R13 1-247-855-00 CARBON 10K R14 1-247-855-00 CARBON 10K R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R16 R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 R18 1-247-855-00 CARBON 10K R18	5% 5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W 1/6W
R12	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W
D1 8-719-981-01 ERAB1-004 R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON 10K R19 1-247-855-00 CARBON 10K R10	5% 5% 5% 5%	1/6W 1/6W 1/6W 1/6W
D1 8-719-981-01 ERA81-004 R15 1-247-855-00 CARBON 10K R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K R18 1-247-855-00 CARBON 10K R19	5% 5% 5%	1/6W 1/6W 1/6W
R16 1-247-855-00 CARBON 10K R17 1-247-855-00 CARBON 10K IC1 8-759-910-35 MSM82C55A-5GS R18 1-247-855-00 CARBON 10K IC2 8-759-910-36 MSM5128-20GS IC3 8-759-910-36 MSM5128-20GS IC4 8-759-901-38 SN74LS138N	5% 5%	1/6W 1/6W
R17 1-247-855-00 CARBON 10K IC1 8-759-910-35 MSM82C55A-5GS R18 1-247-855-00 CARBON 10K IC2 8-759-910-36 MSM5128-20GS IC3 8-759-910-36 MSM5128-20GS IC4 8-759-901-38 SN74LS138N	5%	1/6W
R17	-	
IC1 8-759-910-35 MSM82C55A-5GS R18 1-247-855-00 CARBON 10K IC2 8-759-910-36 MSM5128-20GS IC3 8-759-910-36 MSM5128-20GS IC4 8-759-901-38 SN74LS138N	5%	1/6W
IC2 8.759-910-36 MSM5128-20GS IC3 8.759-910-36 MSM5128-20GS IC4 8.759-901-38 SN74LS138N		
IC3 8-759-910-36 MSM5128-20GS IC4 8-759-901-38 SN74LS138N		
IC4 8-759-901-38 SN74LS138N		
105 8-759-200-22 104011307		
IC6 8-759-900-32 SN74LS32N PACKING MATERIAL		
Ref. No. Parts No. Description		
Q1 8-729-993-72 2SA937 - 3-773-734-11 MANUAL, INSTI	RUCTI	ION
02 8-729-902-11 2SC2021 4-604-478-01 INDIVIDUAL C.	ARTO	N
Q3 8-729-900-36 DTC124ES (BOX, INNER)		
Q4 8-729-900-36 DTC124ES 4-605-061-01 INDIVIDUAL C	ARTO	N
Q5 8-729-900-36 DTC124ES (BOX, OUTER)		
Q6 8-729-900-85 DTC144WS		
Q7 8-729-900-36 DTC124ES		
Q8 8-729-900-85 DTC144WS		
Q9 8-729-902-11 2SC2021		
R1 1-247-855-00 CARBON 10K 5% 1/6W		
R2 1-247-851-00 CARBON 6.8K 5% 1/6W		
R3 1-247-869-00 CARBON 39K 5% 1/6W		
R4 1-247-863-00 CARBON 22K 5% 1/6W		
R5 1-247-855-00 CARBON 10K 5% 1/6W		

NOTE:

- The shaded and A-marked components are critical to 1. safety.
 Replace only with same components as specified.
- 2. Parts printed in Bold-Face type are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

